

EPLAN – efficient engineering.

Technology focus

Ambit Switchgear



Ambit Switchgear Pvt. Ltd. is a leading Manufacturer, Exporter & Supplier of Electrical Panels for various applications. Their wide range of Electrical Panels and associated products include: 415V Power Control Centers (PCC), Motor Control Centers (MCC), Bus Duct- 11KV/33KV Switchgear panels, and Packaged Substations.



Ambit is recognized as an innovator in their business. They have been combining the latest developments in electrical engineering and instrumentation with precision engineering in their wide range of standard and custom panels. All their products are ISO 9001:2008 certified which reflect their commitment to quality with excellence.

The Manufacturing setup based in Noida(UP), India and has a large, global clientele. They are the authorized System House of ABB for manufacturing 11/33kV Switchgear panels, franchisee for manufacturing L&T's 'LV Switchboard – Ti Design', the authorized System Integrator for DEIF, Denmark for Synchronized Genset Controllers; and Automatic Transfer Switch for Socomec, France.

Staying ahead with a leading CAE solution

As the market leader in Electrical Panels, Ambit Switchgear used Computer Aided Design (CAD) tools like SPEE and AutoCad to design their Electrical Panels prior to EPLAN. This has the advantages of reducing design time, and creating templates for future panel designs. But the large number of panel designs; the frequent changes made to them, and innumerable components to be designed made the effort cumbersome. Also, with different teams working on different panel designs all of which use similar components, sharing data among the users and ensuring consistency at every step was becoming a challenge. This was the scenario till Ambit introduced EPLAN Electric P8, an engineering solution from EPLAN Software & Service that is part of the 2.2 billion euro Friedhelm Loh Group.



PROCESS CONSULTING

ENGINEERING SOFTWARE

IMPLEMENTATION

GLOBAL SUPPORT

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How EPLAN made a difference

Unlike most Computer-Aided Engineering tools which do not go beyond design and some basic documentation, EPLAN Electric P8 is a professional CAE system for electrical design. Users benefit from increased efficiency in the product development process by using standardized procedures, automated sequences, and consistent workflows provided in the solution. EPLAN also provides custom-made concepts for system implementation, installation, and smooth integration into the PDM/PLM system landscape - based on standard engineering solutions.

As a result, EPLAN Electric P8 offers unlimited possibilities for project planning, documentation, and management of automation projects. One can automate the generation of detailed reports based on wiring diagrams, which is an integral part of its comprehensive documentation system. Thanks to this, subsequent phases of the project such as production, assembly, commissioning, and service had access to required data in a quick and efficient manner. For large teams working on multiple projects, the engineering data from other project areas could be easily exchanged via interfaces within the CAE software. This guarantees consistency and integration throughout the entire product development process.

Ambit implemented EPLAN Electric P8 in a phased manner for all the design teams, followed by extensive training and customizations from EPLAN. The software was adopted for all of Ambit's products across categories.

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Highlights and Benefits

- The software has made Automatic Ferruling, Terminal and Cable scheduling effortless, with Ambit developing its own need-based libraries for schematic diagrams, Ferruling and Modulus. The flexibility and ease of creating one's own libraries have shortened the design and development cycles significantly. In some product categories, design time has been reduced by 30% or more
- Excellent data consistency has been achieved through EPLAN's documentation. The documentation is generated quickly and is more reliable. The software has helped integrate data corrections and customer-specified changes in an automated manner eliminating human errors.
- Reports: EPLAN provides the ability to create custom reports. Ambit could easily configure Reports for Terminal Diagrams, Cable diagrams and Summarized Parts which are very crucial in Panel Design, especially compartment panels. Further, EPLAN supports filters in report generation which was really helpful for Ambit, as they could filter and generate specific reports as per the compartments and feeders.
- Automatic wire numbers generation and cross reference has become easy with EPLAN.
- Both product and project quality has gone up, reducing the overall cost in a project
- The software has helped standardize recurring content thereby helping provide project quotes to Ambit's customers quickly and more accurately.
- Support documentation provided to Ambit's customers is very good helping improve product adoption and customer loyalty.
- Ambit's engineers could import certified components directly from vendor catalogues using the Data Portal feature for quick, reliable information.

In the overall, the use of EPLAN has helped Ambit successfully reduce processing time, increase productivity, and achieve desired targets in their Panel business.

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The automated functionalities also helped us bring down the number of human errors to a minimum. Further, the quality of service and support provided by EPLAN's team was excellent.

– Senior Product Manager, Ambit

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